



An E-Update

Prepared by Organizational Results
Missouri Department of Transportation

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Cold In-Place Recycled Asphalt Tested on Low Volume Routes

With continually rising oil prices and the expense of prepping the road prior to an HMA overlay, MoDOT's Northwest District sought out a cheaper way of rehabilitating these pavements. The alternative was a Cold In-Place Recycled (CIR) Asphalt Overlay. Since this overlay uses existing material, it is more environmentally friendly and further reduces trucking costs for disposal and to bring new material on site. Also, the cost of maintenance operations to prepare the roadway prior to the contractor is reduced or eliminated with the CIR. We lay down all the details in the project summary.

[Cold In-Place Recycled Asphalt Summary](#)

Central District Uses Roller Compacted Concrete for Overlay

With current prices on conventional pavement overlays increasing, MoDOT is investigating the use of Roller Compacted Concrete to save time and money on low-volume highways in Missouri. Roller Compacted Concrete (RCC) uses less cement, less water and a higher percentage of aggregates to create a stiffer concrete mix that is compacted with vibratory rollers the same as those used in asphalt paving. Most RCC projects have been limited to parking lots, industrial yards and highway shoulders, but the possibility of using RCC on local, county and state roadways is being tested in MoDOT's Central District. While not yet proven on mainline paving projects, RCC has the potential of being less disruptive to traffic than conventional concrete paving. The project summary is packed with information. [Roller Compacted Concrete Project Summary](#)

Benefit-Cost Evaluation Completed for Safety Improvements

According to a recent research study by the Midwest Research Institute, the striping and delineation improvements completed as part of the state's Smooth Road Initiative made a substantial contribution to safety and were well received by the motoring public. Fatal and disabling injury accidents were reduced by 8 percent on SRI routes. Missouri received an estimated \$9.70 in benefits for every dollar spent. Wider stripes combined with both centerline and edgeline rumble strips on resurfaced rural two-lane highways provided a benefit-cost ratio of 59. There were significant reductions in nighttime fatal and disabling injury crashes (ranging from 25 to 77 percent) for rural freeways, rural multilane divided highways, and rural two-lane highways. A survey of Missouri motorists also indicated that 79 percent believe the improvements were a good investment of taxpayer dollars and 80 percent indicated MoDOT should implement similar improvements more widely in the future." You'll benefit from visiting the report and summary. [SRI Benefit-Cost Summary](#) [SRI Benefit-Cost Report](#)

Annual Report Highlights Accomplishments

This past year, Organizational Results has been a flurry of activity with a number of noteworthy accomplishments. You can read about it for yourself in our Fiscal Year 2008 report. [Organizational Results Fiscal Year 2008 Report](#)

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page 2

Economic Impact of Missouri Ports Studied

Missouri's 1,000 miles of navigable waterways along the Missouri and Mississippi rivers are larger than many state's entire Interstate System. And according to a recently completed research project by the Missouri Economic Research and Information Center, the state's 14 public port authorities create about 2,500 jobs and generate a total economic impact of nearly \$640 million each year. There's a river of knowledge waiting for you. [Missouri Port Impact Summary](#)

Research Forum Offered as Conference Workshop

You're invited to spend a full day with MoDOT and FHWA staff to discuss research innovation, successful partnerships and tips to improve your research proposals. This year the workshop is being conducted in conjunction with the Missouri Transportation Engineer Association Meeting in Branson on March 17. Participants also will receive details on how to participate in a special call for research ideas. Sign-up today to reserve your seat. [Research Forum Brochure](#)

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